

## INTERNATIONAL SEARCH REPORT

PCT/GB2004/005246

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data, EMBASE, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/009426 A1 (GREENWALD RICHARD B ET AL) 24 January 2002 (2002-01-24) page 13, column 1, paragraph 2-4; figures 1,4,7,8 page 14, column 1, paragraph 4	1-3,5-7, 10
X	HURWITZ E ET AL: "Inhibition of tumor growth by poly(ethylene glycol) derivatives of anti-ErbB2 antibodies" CANCER IMMUNOLOGY AND IMMUNOTHERAPY, BERLIN, DE, vol. 49, no. 4-5, July 2000 (2000-07), pages 226-234, XP002254077 ISSN: 0340-7004 page 228, column 1; figure 1 ----- -/-	1-3,5-7, 10

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

31 August 2005

Date of mailing of the international search report

07/09/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/031475 A (CELLTECH R & D LIMITED; POPPLEWELL, ANDREW, GEORGE; TICKLE, SIMON, PET) 17 April 2003 (2003-04-17) page 10, lines 15-25; claims 24-27,36; figure 6 page 24, line 30 - page 25, line 5	1-7,10
X	US 2003/021790 A1 (HSEI VANESSA ET AL) 30 January 2003 (2003-01-30) page 20 - page 24 page 28 page 77	1-7,10
X	WO 02/27315 A (ROCHE DIAGNOSTICS GMBH; F. HOFFMANN-LA ROCHE AG; ANDRES, HERBERT; JOSE) 4 April 2002 (2002-04-04) page 11, paragraph 1 page 11, paragraph 4 figures 9-11,17; examples 2,5	3-7,10
Y	CHAPMAN A P ET AL: "THERAPEUTIC ANTIBODY FRAGMENTS WITH PROLONGED IN VIVO HALF-LIVES" NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 17, no. 8, August 1999 (1999-08), pages 780-783, XP001199462 ISSN: 1087-0156 figure 2	1-7,10
Y	TESSMAR J ET AL: "The use of poly(ethylene glycol)-block-poly(lactic acid) derived copolymers for the rapid creation of biomimetic surfaces" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 24, no. 24, November 2003 (2003-11), pages 4475-4486, XP004446088 ISSN: 0142-9612 see conclusions figure 3a	1-7,10
E	EP 1 496 076 A (BEIJING JIANKAI TECHNOLOGY CO., LTD) 12 January 2005 (2005-01-12) claims 6,7,13; example 7	3-7,10
T	NATARAJAN A. ET AL: "Characterization of site specific ScFv PEGylation for tumor targeting pharmaceuticals" BIOCONJUGATE CHEM., vol. 16, no. 1, 2005, pages 113-121, XP008048580 abstract; figure 1 page 117, column 2 page 119, column 1, paragraph 2	1-7,10
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	MANTOVANI G. ET AL: "Design and synthesis of N-maleimido-functionalized hydrophilic polymers via copper mediated living radical polymerization: a suitable alternative to PEGylation chemistry" J. AM. CHEM. SOC., vol. 127, no. 9, 2005, pages 2966-2973, XP008048582 abstract; figures 3-5 see conclusions page 2971, column 2	1,3-6,10
X,P	US 2004/225097 A1 (NHO KWANG ET AL) 11 November 2004 (2004-11-11) page 3, column 1; examples 3,4	3-7,10

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**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 8,9  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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AP3 Rec'd PCT/PTO 20 JUN 2005

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 8,9

Claims 8, 9 do not define subject matter in terms of technical features (Art 6 PCT)

A claim should be understandable without reference to the description: "as herein specifically disclosed in the examples" cannot be accepted under Art. 6 PCT and Rule 6.2(a).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002009426 A1	24-01-2002	US 6251382 B1	26-06-2001
WO 03031475 A	17-04-2003	BR 0212756 A	16-11-2004
		CA 2458464 A1	17-04-2003
		CN 1568331 A	19-01-2005
		EP 1438340 A2	21-07-2004
		WO 03031475 A2	17-04-2003
		HU 0401618 A2	29-11-2004
		JP 2005516590 T	09-06-2005
		MX PA04003274 A	08-07-2004
		NO 20040987 A	10-05-2004
		US 2005181448 A1	18-08-2005
		ZA 200401910 A	09-03-2005
US 2003021790 A1	30-01-2003	US 6133426 A	17-10-2000
		US 6458355 B1	01-10-2002
		US 6468532 B1	22-10-2002
WO 0227315 A	04-04-2002	DE 10048417 A1	11-04-2002
		AU 1590402 A	08-04-2002
		AU 8992301 A	08-04-2002
		CA 2420768 A1	04-04-2002
		CA 2423916 A1	04-04-2002
		WO 0227317 A2	04-04-2002
		WO 0227315 A2	04-04-2002
		EP 1364208 A2	26-11-2003
		EP 1327146 A2	16-07-2003
		JP 3647845 B2	18-05-2005
		JP 2004510160 T	02-04-2004
		JP 2004510162 T	02-04-2004
		US 2004087501 A1	06-05-2004
		US 2004086943 A1	06-05-2004
EP 1496076 A	12-01-2005	AU 2003221291 A1	22-09-2003
		EP 1496076 A1	12-01-2005
		JP 2005520006 T	07-07-2005
		US 2005180946 A1	18-08-2005
		WO 03076490 A1	18-09-2003
		CN 1556828 A	22-12-2004
US 2004225097 A1	11-11-2004	NONE	